

Abstract of the Disclosure

TSS 6/27/01 is described preformed channels fabricated in a variety of substrate materials including PMMA. A method for modifying and controlling fluid flow in channels formed in substrates. The method involves exposing a portion of a fluid flow channel to light at a fluence and wavelength which modifies the surface charge of the substrate at the exposure site. The method can be used to immobilize modulate electroosmotic flow in channels or to chemical compounds or biological species in the fluid flow channels at the modified surfaces. The method can be used to fabricate or modify microfluidic systems

[illegible]